

ABSTRACT

The invention relates to a hydraulic binder whose main constituent is cement to which a mixture comprised of a chromate reducer and a carrier material is added for chromate reduction. The chromate reducer contains two iron(II) sulfate components, with the first component is made of filter salt from the titanium dioxide production, to which a mineral acid regulator, particularly ground limestone, is added. The second component is moist copperas. The hydraulic binder according to the invention is cost-effective and has chromate contents that are considerably lower than the legally permitted limit. The invention also relates to the use of a mixture of filter salt and copperas as a chromate reducer for reducing water-soluble chromate contents in cement.